

Work Plan Calendar Year 2009

Cooperator:	Kansas Department of Agriculture		
State:	Kansas		
Project:	Red Imported Fire Ant Survey		
Project Coordinator:	Laurinda Ramonda		
Agreement Number	09-8453-1227-CA		
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This Work Plan reflects a cooperative relationship between the Kansas Department of Agriculture (KDA) and the United States Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ). It outlines the mission-related goals, objectives, and anticipated accomplishments as well as the approach for conducting a Red Imported Fire Ant survey and the related roles and responsibilities of the Kansas Department of Agriculture and USDA-APHIS-PPQ as negotiated.

I. OBJECTIVES AND NEED FOR ASSISTANCE

This detection survey will gather data to determine the status of the Red Imported Fire Ant (RIFA) in El Dorado, Kansas. This project will provide the funding for the operational expenses for conducting this survey in a high risk area due to a potential violation of the fire ant quarantine regulation.

Survey data from this project will monitor a known pathway of possible introduction of this pest. It will also help ensure that RIFA was not introduced into the environment.

This project will provide KDA and USDA-APHIS-PPQ, with information regarding the status of the target pest. This information can be used to determine appropriate response actions if positive finds are confirmed by USDA.

It is critical that this survey be funded in 2009 to be sure that RIFA was not introduced into El Dorado and the state of Kansas. This project cannot be carried out without financial assistance from USDA.

II. RESULTS OR BENEFITS EXPECTED

The Cooperator seeks to conduct a program which is expected to result in:

- Reduction to the risk of health, the agriculture industry and ecological diversity.
- Additional geographic assessment from data gathered.
- Identification of Red Imported Fire Ants, if present.
- Protection to the state of Kansas from the introduction of Red Imported Fire Ants.
- Prevention of plant health restrictions.
- Timely eradication if pest is found.

III. APPROACH

This survey will take place in El Dorado, Kansas at sites where trees were introduced from an area where a possible violation of the Fire Ant quarantine regulation occurred. Trapping will take place in May through August 2009. Sites will consist of mostly public areas and a grid will be determined for each area and traps will be placed within the grid. There are approximately 10-15 sites in El Dorado and each site will be checked 1-3 times.

Trapping will consist of inserting 1” square pieces of SPAM (canned meat product) onto the wire end of surveyor flags approximately a foot above the ground. Surveyor flags will be placed in a 20 ft. x 20 ft. grid throughout the area. The bait will be checked after 15 minutes to 1 hour for the attraction of ants and then the ants will be collected that are on and/or around the bait. The bait flag will be removed if there are no ants. When ants are found, they will be collected in a vial of alcohol. Specimens will be checked by the state entomologist.

A. The Cooperator and APHIS Mutually Agree to/that:

- Work together in carrying out field surveys, trapping, identification and data collection on RIFA that may pose an immediate risk to health, the agriculture industry, live plant dealer industry and ecological diversity of Kansas or the United States.
- Identification of RIFA and eradication efforts, if found.

1. What is the quantitative projection of accomplishments to be achieved?

a. Anticipated accomplishments:

1. Positive identification data on RIFA will be entered into the state survey data base and NAPIS database when pest identification is confirmed.
2. All negative data will be entered into the state survey database and NAPIS database when it becomes available.
3. GPS coordinates will be included with trap surveys.
4. Identification and distribution data on RIFA in sites of possible introduction.

b. Criteria to evaluate the results and successes of the project:

1. Pest detection survey completed.

2. All data collected from the pest detection surveys is entered into the state survey database and NAPIS database.
3. Maps of the pest detection survey activities are produced to aid in planning of future pest detection surveys, pathway risk analysis, and outreach activities.
4. State CAPS and KDA meetings to keep updated on issues.

c. Methodology used to determine if identified needs are met and results and benefits are achieved:

1. Review of the state survey database and NAPIS database to ensure that data from the pest detection activities have been entered.
2. Review the accomplishment reports and maps.
3. State CAPS and KDA meetings to keep updated on issues.

2. Types of data to be collected and how it will be maintained:

- a. All survey data from cooperative agreements involving pest surveys will be entered by the State Survey Coordinator or KDA staff into the state survey database and NAPIS database to include but not limited to observation number, observation date, data source, state/county, site code, EPA pest code, pest status, and survey method.
- b. Complete, accurate and timely pest survey data will be entered into NAPIS using approved protocol. The data entry requirements are:
 - Enter new national, state, and county records into NAPIS database within 48 hours of confirmation of a pest or pathogen identification by a recognized identifier.
 - Non-time sensitive records, including negative data, must be entered into NAPIS within 2 weeks of confirmation.
 - Negative data should be entered within 2 weeks of decommissioning a trap, obtaining the results from an identifier, or performing a laboratory assay
 Survey data will be collected with GPS technology for internal pathway analyses. Survey maps will be developed from approved GIS mapping software.

B. The Cooperator will:

- Conduct survey at sites of possible introduction in El Dorado, Kansas.
- Document locations by GPS coordinate.
- Supply traps and GPS equipment.
- Provide KDA staff.
- Provide vehicle and fuel for travel for conducting trapping and collecting data.
- Provide lodging when needed.

1. Work to be accomplished:

- Trapping for the Red Imported Fire Ant at sites of possible introduction in El Dorado, Kansas from May through September.
- Survey and trapping will be done with KDA full time employees.
- Collect survey results and enter into state survey database and NAPIS database.

- Identify high risk locations based on high risk nursery stock shipments and plantings.
- 2. Resources that are required to perform the work:**
- KDA staff will conduct survey.
 - Trapping supplies (marking flags, SPAM –canned meat product), drop cloths, microscopes, paint brushes, specimen vials, alcohol, alcohol proof pens, Ziploc bags, and insect repellent and other supplies if needed.
 - GPS unit and map for location of fields.
 - Rental or state vehicles are required set up and monitor traps.
 - Provided by Cooperator, office space with associated services and utilities, computers and other office equipment for the use of Cooperator personnel. These include digital camera, GPS unit and computer with internet service. Computers will be used for entering survey data into the state survey database and NAPIS database.
- 3. Personnel needed and duties:**
- KDA staff will conduct survey.
- 4. Equipment needed to perform work (\$5,000 or more):**
- a. **Equipment provided by cooperator:** N/A
 - b. **Equipment provided by APHIS:** N/A
 - c. **Equipment purchased in whole or part with APHIS funds:** N/A
 - d. **How equipment will be used:** N/A
 - e. **Method of disposition of the equipment upon termination of the agreement:**
N/A
- 5. Information technology equipment:**
- Provided by KDA, office space with associated services and utilities, computers and other office equipment for the use of Cooperator personnel. These include digital camera, GPS unit, PDA and computer with internet service.
- 6. Supplies needed to perform work:**
- Surveyor flags
 - SPAM (canned meat product)
 - Drop cloths
 - Microscopes
 - Vials
 - Paint Brushes
 - Cooler(s)
 - Insect repellent
 - Ziploc bags

- Alcohol
 - Alcohol proof pens
 - Comparison specimens for Red Imported Fire Ant
- a. **What supplies will be provided by the Cooperator?**
 - GPS units, digital camera, PDA and office supplies
 - Microscopes
 - b. **What supplies will be provided by APHIS?**
 - Outreach materials
 - Comparison specimens for Red Imported Fire Ant
 - c. **What supplies will be purchased in whole or in part with APHIS funds?**
 - Supplies for the collection of specimens (surveyor flags, SPAM-canned meat product, drop cloths, vials, paint brushes, insect repellent, Ziploc bags, alcohol, alcohol proof pens).
 - Supplies and postage for shipping specimens.
 - d. **How will the supplies be used?**
 - To collect specimens.
 - Planning, implementation, data collection and data submission of surveys.
 - Education of stakeholders, extension and the general public.
 - Pest detection survey.
 - Shipping of specimens to identifiers or labs.
 - e. **What is the proposed method of disposition of the supplies with a cumulative value over \$5,000 upon termination of the agreement/project?**
 - There should not be any.
7. **Procurements made and method of procurement in support of the funded project:**
 - The Fiscal Department at the Kansas Department of Agriculture completes most contracts.
 - Most procurements will be made by purchase.
 8. **Travel needs for project:**
 - Travel will be required to survey sites by use of a KDA or rental vehicle. The KDA Plant Protection and Weed Control Plant Program Manager is the approving official. Costs are included in the financial plan.
 - Lodging may be required for longer distance sampling. The KDA Plant Protection and Weed Control Plant Program Manager is the approving official. Costs are included in the financial plan.
 9. **Reports:**
 - a. All reports are submitted to the APHIS Authorized Department Officer's Designated Representative (ADODR). Reports include:

1. Narrative accomplishment reports in the frequency and time frame specified in the Notice of Award, Article 4.
2. Financial Status Reports, SF-269, in the frequency and time frame specified in the Notice of Award, Article 4.

10. Contributing parties working on the project:

- a. **List Participating Agency/Institution:**
KDA, USDA-APHIS, City of El Dorado
- b. **List all who will work on the project:**
KDA staff
- c. **Describe the nature of their effort:**
Help with site identifications, pest identification
- d. **Contribution:**
Trapping and identification of pests

C. APHIS Will:

- Provide any new information that becomes available for the sites and pest.
- Review data.
- Provide outreach materials for the Red Imported Fire Ant.
- Provide funds to the Cooperator to cover costs outlined in the Financial Plan.
- Make arrangements for Taxonomic support in identification and sorting if necessary.
- Provide training, when necessary.
- Provide comparison specimens the Red Imported Fire Ant.

1. Equipment needed to perform work:

- a. **Will equipment be loaned or provided by APHIS?** No
- b. **How will the equipment be used?** N/A

IV. GEOGRAPHIC LOCATION OF PROJECT

- A. The Red Imported Fire Ant survey will be conducted at various sites in El Dorado, Kansas. These sites will be where potential introduction of this pest occurred.
- B. The type of terrain involved in this project will mainly public areas where trees were planted.
- C. There could be many unusual features which may have impact on the project or activity such as:
 - Severe climatic conditions require rapid trap placement and recovery schedule
 - Size of the survey area and number of locations increases costs for travel and personnel time

- Trap attractant (canned meat product) increases survey costs and manpower requirements
- D. The kinds of data to be collected will include, but not limited to, observation number, observation date, data source, state/county, site code, EPA pest code, pest status and survey method.**
- E. How data will be maintained:**
1. All survey data from cooperative agreements involving pest surveys will be entered by the State Survey Coordinator or KDA staff into the state survey database and NAPIS database to include but not limited to observation number, observation date, data source, state/county, site code, EPA pest code, pest status, and survey method.
 2. Complete, accurate, and timely pest survey data will be entered into NAPIS using approved protocol. The data entry requirements are:
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 - Survey data will be collected with GPS technology for internal pathway analyses. Survey maps will be developed from approved GIS mapping software.
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- F. Criteria to evaluate the results and successes of the project:**
- Pest detection survey completed.
 - All data collected from the pest detection survey is entered into the state survey database and NAPIS database.
 - Review of the accomplishment reports and maps.
- G. Methodology used to determine if the results and benefits are achieved:**
1. Review of the state survey database and NAPIS database to ensure that data from the pest detection activities have been entered.
 2. Review the accomplishment reports, supporting outreach materials (if applicable), and maps.
 3. State CAPS and KDA meetings to keep updated on issues.

V) DATA COLLECTION AND MAINTENANCE

1. All survey data from cooperative agreements involving pest surveys will be entered by the State Survey Coordinator or KDA staff into the state survey database and NAPIS database to include but not limited to observation number, observation date, data source, state/county, site code, EPA pest code, pest status, and survey method.

2. Complete, accurate, and timely pest survey data will be entered into NAPIS using approved protocol. The data entry requirements are:
 - Enter new national, state, and county records into NAPIS database within 48 hours of confirmation of a pest or pathogen identification by a recognized identifier.
 - Non-time sensitive records, including negative data, must be entered into NAPIS within 2 weeks of confirmation.
 - Negative data should be entered within 2 weeks of decommissioning a trap, obtaining the results from an identifier, or performing a laboratory assay.
 - Survey data will be collected with GPS technology for internal pathway analyses. Survey maps will be developed from approved GIS mapping software.

V) TAXONOMIC SUPPORT

Identification of potential specimen will be done by Glenn Salsbury: Kansas Department of Agriculture State Entomologist. Any necessary sample verifications will be done by an approved entomologist or USDA identifier.

Screened to what taxonomic group (e.g., family or genus name)?

Solenopsis invicta

Survey Collection Details: (Total Number of Trap Collections= Number of Sites X Number of Traps X Total Number of Visits)

Target Species	Survey Dates (Starting-Ending)	Number of Sites	Number of Traps/Visual surveys	Number of visits	Potential Number of Collections
Solenopsis invicta	May 2009 through August 2009	10-15	750-3,300	3	22,500-148,500
				Total	22,500-148,500

*Areas are still being processed.

Source(s): Imported Fire Ant-#3 State Priority Pest List

VI) SIGNATURES

ROAR

Date

ADODR

Date